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## Catalog Of OMG CORBAServices Specifications

This page provides a catalog of OMG specifications. Specifications are listed alphabetically.

### *Description Of Catalog Entries*

Click [here](#) for a description of each field for specifications catalogued below.

### *Understanding Terms Used*

In order to understand the various terms used to identify an OMG specification as it moves through its editing cycles, consult the [OMG Specifications Tutorial](#).

**Specification Name:**

Additional Structuring Mechanisms for the OTS

**Description:**

Provides a low-level architecture for Workflow Engines, Component Management Middleware, and other systems used to create advanced transaction implementations. Attempts to solved the problem of supporting applications that can be very complex in structure, may take a long time to complete, may contain long periods of inactivity, and have complex relationships with other applications.

**Keywords:**

abort, ACID, automicity, commit, committed, completion, durability, isolation, lock, policy, propagation, rollback, security, synchronization, thread, transaction, workflow

**Latest / past specifications:**

Current version: 1.1

Past version: 1.0

**Additional documents:**

IDL

**Contact Information:**

Middleware and Related  
Services PTF

**Related OMG Specifications:**

CORBA/IIOP, Transaction Service

**Related Industry Standards:**

**Specification Name:**

Collection Service

**Description:**

Provides a uniform way to create and manipulate the most common collections generically.

**Keywords:**

bag, collection, heap, iterator, key, ordered, sequence, sequential, set, sorted

**Latest / past specifications:**

Current version: 1.0.1

Past version: 1.0

**Contact Information:**

Middleware and Related  
Services PTF

**Related OMG Specifications:**

CORBA/IIOP

**Related Industry Standards:**

**Specification Name:**

Concurrency Service

**Description:**

Mediates concurrent access to an object such that the consistency of the object is not compromised when accessed by concurrently executing computations.

**Keywords:**

concurrent, lock, nested, transaction, unlock

**Latest / past specifications:**

Current version: 1.0

Past versions: n/a

**Contact Information:**

Middleware and Related

Services PTF*Related OMG Specifications:*CORBA/IIOP, Transaction Service*Related Industry Standards:**Specification Name:*Enhanced View of Time (EVoT)

The existing CORBA Services Time Service recognized only one clock, one presumed to represent UTC (Universal Time Coordinated). EVoT 1.x introduced a generalized Clock interface to represent clocks with differing characteristics. Each clock is capable of providing a readout of time and is characterized by a set of properties.

*Description:*

EVoT 2.0, submitted as an RFC, is a revised and upgraded version of the EVoT v1.2. This specification fixes some issues of the previous specification and introduces new features. The changes introduced were motivated by the experience matured in several projects which relied on the EVoT v1.2 for delivering high performance and highly available time services in application domains such as Air Traffic Control (ATC) Systems and Command/Control Systems. As its predecessors, EVoT 2.0 leaves the specification of CORBA Time Service unchanged.

*Keywords:*

clock, delayed execution, periodic execution, synchronization, time, UTC

*Latest / past specifications:*Current version: 1.2Past version: 1.1*Finalization Information:*

Status: 2.0 Beta 2 adopted

Working Document: 2.0  
Beta 2 SpecificationContact: Middleware and  
Related Services PTF*Related OMG Specifications:*CORBA/IIOP, Lightweight Services, Property Service, Time Service*Related Industry Standards:**Specification Name:*Event Service*Description:*

Defines two roles for objects: the supplier role and the consumer role. produce event data and *consumer* process event data. Event data are communicated between suppliers and consumers by issuing standard CORBA requests.

*Keywords:*

channel, consumer, event, pull, push, supplier

*Latest / past specifications:*Current version: 1.2

Past versions

*Contact Information:*Middleware and Related  
Services PTF*Related OMG Specifications:*CORBA/IIOP, Lightweight Services, Notification Service, Time Service*Related Industry Standards:**Specification Name:*Externalization Service*Description:*

Defines protocols and conventions for externalizing (recording the object's state in a stream of data) and internalizing objects.

*Keywords:*

client, file, externalization, node, stream

*Latest / past specifications:*Current version: 1.0

Past versions: n/a

*Contact Information:*Middleware and Related  
Services PTF*Related OMG Specifications:*CORBA/IIOP*Related Industry Standards:**Specification Name:*Licensing Service*Description:*

Defines the interfaces that support management of software licenses.

*Keywords:*

client, license, policy, producer

*Latest / past specifications:*Current version: 1.0

Past versions: n/a

*Contact Information:*Middleware and Related  
Services PTF*Related OMG Specifications:*CORBA/IIOP*Related Industry Standards:**Specification Name:*Life Cycle Service*Description:*

Life Cycle Service defines services and conventions for creating, deleting, copying and moving objects.

|                                      |  |   |
|--------------------------------------|--|---|
| <i>Keywords:</i>                     | copy, client, create, delete, factory, move  |   |
| <i>Latest / past specifications:</i> | Current version: <u>1.2</u>  | <u>Past versions</u>  |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |   |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP</u>  |   |
| <i>Related Industry Standards:</i>   |  |   |
| <i>Specification Name:</i>           | Lightweight Services   |   |
| <i>Description:</i>                  | This specification defines a compatible subset of three existing CORBA services (Even Naming and Time) to make these services suitable for use in resource- constrained systems. These subsets are intended to be inserted as new chapters in the Services documents that they produce the subset of. No other changes to the existing documents are being proposed. |   |
| <i>Keywords:</i>                     | channel, clock, event, periodic execution, PIM, PSM, time  |   |
| <i>Latest / past specifications:</i> | Current version: <u>1.0</u>  | Past versions: n/a  |
| <i>Associated documents:</i>         | <u>IDL</u>   |   |
| <i>Revision Information:</i>         | Status: revision underway  | Working Document: <u>current version</u> Contact: <u>Lightweight Services RTF</u> |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Enhanced Time Service, Event Service, Minimum CORBA, Naming Service, Property Service, UML, UML Profile for CORBA</u>   |   |
| <i>OMG Cross Reference:</i>          | <u>Specialized CORBA Specifications</u>  |   |
| <i>Related Industry Standards:</i>   |  |   |
| <i>Specification Name:</i>           | Management of Event Domains  |   |
| <i>Description:</i>                  | Specifies an architecture and interfaces for managing event domains (sets of one or more event channel that are grouped together for the purposes of management, and/or for providing enhanced capabilities to the clients of those channels such as improved scalability.)  |   |
| <i>Keywords:</i>                     | channel, connection, event, log, notification, topology  |   |
| <i>Latest / past specifications:</i> | Current version: <u>1.0</u>  | Past versions: n/a  |
| <i>Contact Information:</i>          | <u>Telecommunications PSIG</u>   |   |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Event Service, Notification Service</u>   |   |
| <i>OMG Cross Reference:</i>          | <u>Domain Specifications</u>   |   |
| <i>Related Industry Standards:</i>   |  |   |
| <i>Specification Name:</i>           | Naming Service   |   |
| <i>Description:</i>                  | Provides the principal mechanism through which most clients of an ORB-based system locate objects that they intend to use (make requests of).  |   |
| <i>Keywords:</i>                     | binding, client, context, iterator, names, naming, resolve, URL  |   |
| <i>Latest / past specifications:</i> | Current version: <u>1.3</u>  | <u>Past versions</u>  |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |   |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Lightweight Services</u>  |   |
| <i>Related Industry Standards:</i>   |  |   |
| <i>Specification Name:</i>           | Notification Service   |   |
| <i>Description:</i>                  | An extension to the existing OMG Event Service, adding to it: transmitting events in the form of a data structure; event subscription; discovery; QoS; and an optional event type repository.  |   |
| <i>Keywords:</i>                     | discovery, events, event type, Filter Constraint Language, filtering, QoS, repository, subscription  |   |
| <i>Latest / past specifications:</i> | Current version: <u>1.1</u>  | <u>Past versions</u>  |
| <i>Contact Information:</i>          | <u>Telecommunications PSIG</u>   |   |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Event Service, Notification/JMS Interworking</u>  |   |
| <i>Related Industry Standards:</i>   |  |   |

|                                      |  |                                  |
|--------------------------------------|--|----------------------------------|
| <i>Specification Name:</i>           | Notification / JMS Interworking  |                                  |
| <i>Description:</i>                  | A specification of an architecture and interfaces for managing Notification Service interworking with Java Message Service. The interworking involves several aspects such as: event message mapping; QoS mapping; event and message filtering; automatic federation between Notification Service channel concept and topic/queue concepts; and transaction support. |                                  |
| <i>Keywords:</i>                     | bridging, event channel, filters, messages, QoS, transactional support   |                                  |
| <i>Latest / past specifications:</i> | Current version: <u>1.0</u>  | Past versions: n/a               |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |                                  |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Notification Service</u>  |                                  |
| <i>Related Industry Standards:</i>   | <u>Java Message Service</u>  |                                  |
| <i>Specification Name:</i>           | Persistent State Service (replaces Persistent Object Service)  |                                  |
| <i>Description:</i>                  | Interfaces which present persistent information as storage objects stored in storage homes. Storage homes are themselves stored in datastores, an entity that manages data, for example a database, a set of files, a schema in a relational database.   |                                  |
| <i>Keywords:</i>                     | catalog, connector, datastore, persistence, PSDL, session, transaction   |                                  |
| <i>Latest / past specifications:</i> | Current: <u>2.0</u>  | <u>Past version</u> (deprecated) |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |                                  |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Security Service, Transaction Service</u>   |                                  |
| <i>Related Industry Standards:</i>   | ODMG 2.0; The XA Specification, X/Open Document C193   |                                  |
| <i>Specification Name:</i>           | Property Service   |                                  |
| <i>Description:</i>                  | Provides the ability to dynamically associate named values with objects outside the static IDL-type system   |                                  |
| <i>Keywords:</i>                     | factory, iterator, name-value pairs, property, set, tuple  |                                  |
| <i>Latest / past specifications:</i> | Current version: <u>1.0</u>  | Past versions: n/a               |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |                                  |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP, Lightweight Services</u>  |                                  |
| <i>Related Industry Standards:</i>   |  |                                  |
| <i>Specification Name:</i>           | Query Service  |                                  |
| <i>Description:</i>                  | Provides query operations on collections of objects.   |                                  |
| <i>Keywords:</i>                     | collection, iterator, key, ordered, property, query, sequential, set   |                                  |
| <i>Latest / past specifications:</i> | Current version: <u>1.0</u>  | Past versions: n/a               |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |                                  |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP</u>  |                                  |
| <i>Related Industry Standards:</i>   | ANSI X3.135-1992; ANSI X3H2-94-329; ODMG-93, v1.2  |                                  |
| <i>Specification Name:</i>           | Relationship Service   |                                  |
| <i>Description:</i>                  | Allows entities and relationships to be explicitly represented. Entities are represented as CORBA objects. The service defines two kinds of objects: relationships and roles.  |                                  |
| <i>Keywords:</i>                     | cardinality, check out, containment, degree, employment, graph, ownership, reference, relationship, role type  |                                  |
| <i>Latest / past specifications:</i> | Current version: <u>1.0</u>  | Past versions: n/a               |
| <i>Contact Information:</i>          | <u>Middleware and Related Services PTF</u>   |                                  |
| <i>Related OMG Specifications:</i>   | <u>CORBA/IIOP</u>  |                                  |
| <i>Related Industry Standards:</i>   |  |                                  |

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|--------------------------------------|--|-------------------------------|
| <i>Specification Name:</i>           | Security Service   |                               |
| <i>Description:</i>                  | A security reference model that provides the overall framework for CORBA security.   |                               |
| <i>Keywords:</i>                     | access control, accountability, assurance, audit, authentication, certification, DAC, key, MAC, non-repudiation, policy, protection, security, trust   |                               |
| <i>Latest / past specifications:</i> | Current version: <a href="#">1.8</a>   | <a href="#">Past versions</a> |
| <i>Contact Information:</i>          | <a href="#">Middleware and Related Services PTF</a>  |                               |
| <i>Related OMG Specifications:</i>   | <a href="#">CORBA/IIOP</a> , <a href="#">CCM</a> , <a href="#">Concurrency Service</a> , <a href="#">Persistent State Service</a> , <a href="#">Time Service</a>   |                               |
| <i>Related Industry Standards:</i>   | ECMA-219, ECMA-235, IETF GSS Kerberos V5, ISO/IEC 9594-8, X/Open P308  |                               |
| <i>Specification Name:</i>           | Telecoms Log Service   |                               |
| <i>Description:</i>                  | This specification defines the interfaces that allow logging of any type of event and querying of Log Records based on constraint languages. It also provides capabilities to form log networks for storing and forwarding events.   |                               |
| <i>Keywords:</i>                     | alarm, channel, event, factory, filter, log, record  |                               |
| <i>Latest / past specifications:</i> | Current version: <a href="#">1.1.2</a>   | <a href="#">Past versions</a> |
| <i>Contact Information:</i>          | <a href="#">Telecommunications PSIG</a>  |                               |
| <i>Related OMG Specifications:</i>   | <a href="#">CORBA/IIOP</a> , <a href="#">Event Service</a> , <a href="#">Notification Service</a> , <a href="#">Time Service</a>   |                               |
| <i>Related Industry Standards:</i>   |  |                               |
| <i>Specification Name:</i>           | Time Service   |                               |
| <i>Description:</i>                  | Enables a user to obtain current time together with an error estimate associated with it.  |                               |
| <i>Keywords:</i>                     | event, time, Time Interval Object, timer, TIO, UTC, Universal Time Object, UTO   |                               |
| <i>Latest / past specifications:</i> | Current version: <a href="#">1.1</a>   | <a href="#">Past version</a>  |
| <i>Contact Information:</i>          | <a href="#">Middleware and Related Services PTF</a>  |                               |
| <i>Related OMG Specifications:</i>   | <a href="#">CORBA/IIOP</a> , <a href="#">Enhanced View of Time</a> , <a href="#">Event Service</a> , <a href="#">Security Service</a>  |                               |
| <i>Related Industry Standards:</i>   | X/Open CAE Specification C310  |                               |
| <i>Specification Name:</i>           | Trading Object Service   |                               |
| <i>Description:</i>                  | The OMG trading object service facilitates the offering and the discovery of instances of services of particular types.  |                               |
| <i>Keywords:</i>                     | export, import, lookup, policy, property, query, trader  |                               |
| <i>Latest / past specifications:</i> | Current version: <a href="#">1.0</a>   | Past versions: n/a            |
| <i>Contact Information:</i>          | <a href="#">Middleware and Related Services PTF</a>  |                               |
| <i>Related OMG Specifications:</i>   | <a href="#">CORBA/IIOP</a>   |                               |
| <i>Related Industry Standards:</i>   |  |                               |
| <i>Specification Name:</i>           | Transaction Service  |                               |
| <i>Description:</i>                  | Provides interfaces that combine the transaction paradigm, essential to developing reliable distributed applications, and the object paradigm, key to productivity and quality in application development, together to address the business problems of commercial transaction processing. |                               |
| <i>Keywords:</i>                     | abort, ACID, automicity, commit, committed, completion, durability, isolation, lock, policy, propagation, rollback, security, synchronization, thread, transaction   |                               |
| <i>Latest / past specifications:</i> | Current version: <a href="#">1.4</a>   | <a href="#">Past versions</a> |
| <i>Contact Information:</i>          | <a href="#">Middleware and Related Services PTF</a>  |                               |
| <i>Related OMG Specifications:</i>   | <a href="#">Additional Structuring</a> , <a href="#">CCM</a> , <a href="#">CORBA/IIOP</a> , <a href="#">Persistent State Service</a>   |                               |
| <i>Related Industry Standards:</i>   | ODMG-93; SNA LU 6.2; TxRPC Specification, X/Open Document P305; XA Specification, X/Open Document C193; XATMI Specification, X/Open Document P306; X/Open DTP model; X/Open DTP-compliant Resource Managers  |                               |

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*Edited by Fred Waskiewicz on 03/19/2008*